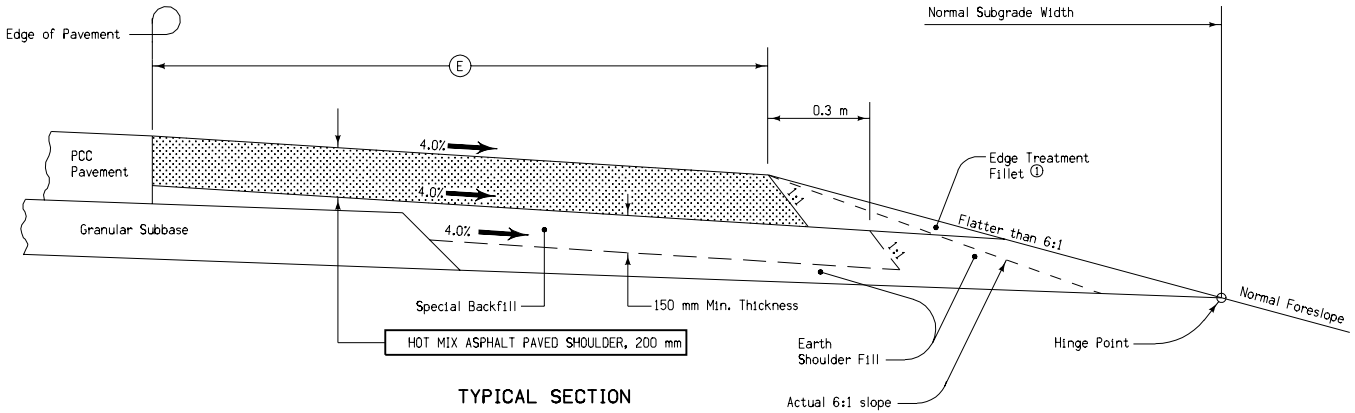
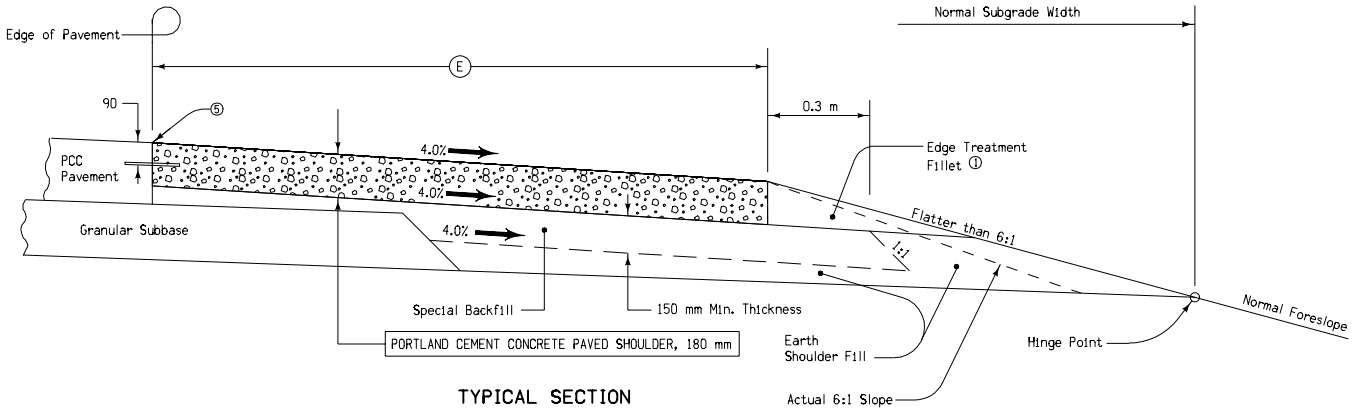


TYPICAL SECTION
HOT MIX ASPHALT PAVED SHOULDER



TYPICAL SECTION
P.C. CONCRETE PAVED SHOULDER

GENERAL NOTES:

Payment for "Special Backfill" shall be based on a uniform 150 millimeter thickness. The thickness may be exceeded at the Contractor's option with no compensation for the additional material.

① Refer to the appropriate Detail Drawing.

② Rates indicated are for design purposes. Quantities listed are for one shoulder per station.

③ Quantities shown are based on a design density of 2325 kilograms per cubic meter for Hot Mix Asphalt with an asphalt content of 6.0% utilizing a 19 millimeter aggregate mix size, with 45% crushed particles, and no special aggregate frictional requirements. N_{ini}, N_{des}, and N_{max} shall be 7, 68 and 104 respectively regardless of design ESALs for the pavement. Asphalt Binder PG58-28 shall be utilized with this mix.

④ Includes quantity for tack coating vertical face of adjacent pavement prior to placement of any base material. Tack Coat estimated at one (1) application at 0.2 liters per square meter.

⑤ 'BT-1' or 'BT-3' joint, refer to RH-51.

DESIGN QUANTITY TABLE ②

E	SHOULDER SURFACE AREA	HMA SHOULDER ③			PCC SHOULDER VOLUME
		HMA	ASPHALT BINDER	TACK COAT ④	
m	m^2	Mg	Mg	L	m^3
1.2	120.0	60.45	3.63	32.0	21.60
1.8	180.0	88.35	5.30	44.0	32.40
2.4	240.0	116.25	6.98	56.0	43.20
3.0	300.0	144.15	8.65	68.0	54.00

All dimensions given in millimeters unless noted.

METRIC VERSION

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RH-41A

REVISION: Remove reference to Rumble Strip Standard.

REVISION NO. 20

REVISION DATE 10-21-03

William J. Stein
APPROVED BY DESIGN METHODS ENGINEER

PAVED SHOULDER ALTERNATES
(200 mm HMA AND 180 mm PCC)